PATENT COOPERATION TREATY

PCT

Translation INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

1 **	nt's or agent's file reference 2220-PCT	FOR FURTHER ACTION	FOR FURTHER ACTION See Form PCT/IPE			
Internat	ional application No.	International filing date (day/	nonth/year) Priority of	late (day/month/year)		
PCT	/JP2004/010094	15.07.2004	16.0	07.2003		
	ional Patent Classification (IPC) or nate F1/13357 , F21S2/0		21 1 0 3 / 0 0			
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Applica SHA	nt RP KABUSHIKI KAIS	НА				
1.	This report is the international preli- under Article 35 and transmitted to the	-	•	al Preliminary Examining Authority		
2.	This REPORT consists of a total of	6	sheets, including this cover sheet.			
3.	This report is also accompanied by A	NNEXES, comprising:				
	a. (sent to the applicant and	to the International Bureau) a	total of 1	sheets, as follows:		
	1	•		nd are the basis for this report and/or and Section 607 of the Administrative		
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental					
	Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
	b (sent to the International	Bureau only) a total of (indicate	type and number of electro	onic carrier(s))		
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4.	This report contains indications relati	ng to the following items:				
	Box No. I Basis of the	report				
	Box No. II Priority					
	Box No. III Non-establi	blishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV Lack of uni	nity of invention				
	BON 110. 1	tatement under Article 35(2) wides explanations supporting such	·	ve step or industrial applicability;		
Box No. VI Certain do		ocuments cited				
	Box No. VII Certain def	ects in the international applicat	ion			
	Box No. VIII Certain observations on the international application					
Date of	submission of the demand	Date of	completion of this report			
Name a	nd mailing address of the IPEA/JP	Author	Authorized officer			
Facsimi	le No.	Telepho	one No.			

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Box	No. I	Basis of the report				
1.	_	d to the language, this report is based on the internation	onal application in the language in	which it was filed, unless otherwise		
		report is based on translations from the original langua h is the language of a translation furnished for the pur		· ·		
		international search (Rule 12.3 and 23.1(b))				
		publication of the international application (Rule 12.4	4)			
		international preliminary examination (Rule 55.2 and	/or 55.3)			
2.	receiving (this report)		<u> </u>	•		
		sternational application as originally filed/furnished				
		escription:				
	pages			as originally filed/furnished		
	pages	3* 	_ received by this Authority on _			
	pages	3 [*]	_ received by this Authority on .			
	the cl	aims:				
	nos.	3-8		as originally filed/furnished		
	nos.*		as amended (togethe	r with any statement) under Article 19		
	nos.*	1-2	_ received by this Authority on	09.05.2005		
	nos.*		_ received by this Authority on			
	the da	rawings:				
	sheet	S Fig. 1-10		as originally filed/furnished		
	sheet	s*	received by this Authority on			
	sheet	s*	received by this Authority on			
	a segi	uence listing and/or any related table(s) – see Supplen	-			
			ional Box Relating to Sequence B			
3.	I he a	amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
	Ш	any table(s) related to sequence listing (specify):				
4.		report has been established as if (some of) the amendave been considered to go beyond the disclosure as f				
		the description, pages				
		the claims, nos.				
	the drawings, sheets/figs					
	the sequence listing (specify):					
	any table(s) related to sequence listing (specify):					
*	If item 4 ap	oplies, some or all of those sheets may be marked "sup				

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Вох		tatement under Article 35(2) with regard to novelty, inventive step or industrial applicability; and explanations supporting such statement	
1.	Statement		
	Novelty (N)	Claims 1-8	YES
		Claims	NO
	Inventive step (IS)	Claims	YES
		Claims 1-8	NO
	Industrial applicability	(IA) Claims 1-8	YES
		Claims	NO NO
2.	Citations and explanations		
	Document 1:	JP 2002-526808 A (3M Innovative Properties	
		Co.), 20 August 2002; paragraphs 10-11 and	
		57-68; all drawings & WO 2000/020910 A1;	
		page 3, lines 8-31; page 22, line 5 to page	
		28, line 17, all drawings & US 6160663 A &	
		EP 1118032 A	
	Document 2:	WO 2000/057240 Al (Hitach, Ltd.), 28	
		September 2000; page 10, lines 12-13; fig.	
		1a	
	Document 3:	JP 2003-43222 A (Yuka Denshi Co., Ltd.), 13	
		February 2003; paragraph 35	
	Document 4:	JP 20000-30519 A (Enplas Corp.), 28 January	
		2000; paragraphs 10 and 27-78 and all	
		diagrams	
	Document 5:	JP 2003-177220 A (Dainippon Printing Co.,	
		Ltd.), 27 June 2003; paragraph 25	
	Document 6:	JP 9-506985 A (Minnesota Mining and	
		Manufacturing Co.), 8 July 1997; page 15,	
		lines 10-22, fig. 9 & WO 1995/017692 A1;	
		page 13, lines 5-18; and fig. 19 $\&$ US	
		2001/8464 A1 & EP 736188 A	
	Document 7:	JP 10-333131 A (Matsushita Electric	
		Industrial Co., Ltd.), 18 December 1998;	

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

paragraph 8 and fig. 14 & US 6219113 B1; column 8, lines 20-22, and fig. 14

Document 8: JP 2002-107513 A (Toppan Printing Co., Ltd.), 10 April 2002; claim 9

Document 9: JP 10-206615 A (Nitto Denko Corp.), 7 August 1998; paragraphs 17-19 and fig. 3

The inventions set forth in claims 1 and 2 do not involve an inventive step in the light of documents 1-3, cited in the international search report, and newly cited documents 8 and 9. Document 1 (paragraphs 10-11) discloses a phase-difference film which has anisotropic coefficients of thermal expansion. In addition document 2 (page 10, lines 12-13) discloses making the coefficients of thermal expansion of adjoining phase difference films substantially equal, and a person skilled in the art could easily apply this in document 1. Moreover, document 3 (paragraph 35) discloses the coefficient of linear thermal expansion as one coefficient of thermal expansion that should be made equal in two optical materials. And documents 8 and 9 disclose a constitution wherein a first optical sheet and second optical sheet are arranged next to one another in a separable state along a line perpendicular to the surface.

The invention set forth in claim 3 does not involve an inventive step in the light of documents 1-3 with document 4, cited in the international search report, and newly cited documents 8 and 9. Document 4 (paragraph 10) discloses a reflective polarizing sheet which has anisotropic coefficients of linear expansion. Document 4 (paragraphs 27-78) also discloses a structure in which an

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

aforementioned reflective polarizing sheet is combined with a prism sheet or light-diffusing sheet. Since document 1 (paragraph 11) discloses reflective polarizing sheets which have anisotropic coefficients of thermal expansion, a person skilled in the art could easily apply an aforementioned structure in document 1.

The invention set forth in claim 4 does not involve an inventive step in the light of documents 1-4 and document 5, cited in the international search report, and newly cited documents 8 and 9. Document 5 (paragraph 25) discloses polycarbonate resins, polystyrene resins and nylon-6 resins as materials for light-diffusing sheets.

The inventions set forth in claims 5 and 6 do not involve an inventive step in the light of documents 1-5 and document 6, cited in the international search report, and newly cited documents 8 and 9. Document 6 (page 15, lines 10-22, and fig. 9) discloses an arrangement of a light source - reflective polarizing element - prism element. And a person skilled in the art could easily apply document 4 with this arrangement in document 1.

The inventions set forth in claims 7 and 8 do not involve an inventive step in the light of documents 1-6 and document 7, cited in the international search report, and newly cited documents 8 and 9. As disclosed in document 7 (paragraph 7 and fig. 14), arranging the transmission axis of a polarizing sheet parallel to the direction of the short side of the liquid crystal panel is known. In addition, document 1 (paragraphs 57-68) discloses an arrangement wherein the optical sheet is

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Box No. V	Rea	soned tions :	stat	ement u explana	nder Article 35(2) with regard to novelty, inventive step or industrial applicability; tions supporting such statement
rotate	ed	bу	а	set	angle.